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Application Serial No. 10/576,006
Reply to office action of September 3, 2008

PATENT
Docket: CU-4773

Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) An apparatus for repeating a signal from a satellite to a mobile station in a shadow area, the apparatus comprising:

means a receiving unit for receiving the signal and amplifying the received signal **from the satellite**;

means a radiating unit for radiating the amplified signal to the shadow area;
and

means a feeding unit for feeding the amplified signal to the radiating means,
wherein the receiving unit transmits the amplified received signal to the radiating unit without being blocked

wherein the shadow area is blocked from receiving the signal from the receiving unit.

2. (currently amended) The apparatus of claim 1, wherein the receiving **includes unit comprises:**

a microstrip patch array antenna for receiving the signal from the satellite; and
an amplifier for amplifying the received signal from the microstrip patch array antenna.

3. (currently amended) The apparatus of claim 2, wherein the radiating **means**

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unit is installed in the shadow area.

4. (currently amended) The apparatus of claim 2, wherein the microstrip patch array antenna and the amplifier are implemented as one piece and further **includes comprises** a probe for transiting the signal received from the microstrip patch array antenna to the amplifier.

5. (currently amended) The apparatus of claim 1, wherein the radiating **means unit** is one directional microstrip patch array antenna.

6. (original) The apparatus of claim 5, wherein the shadow area is an overpass.

7. (currently amended) The apparatus of claim 1, wherein the receiving **means unit** is located at a position where a line of sight to the satellite is secured.

8. (currently amended) The apparatus of claim 1, wherein the radiating **means unit includes comprises:**

a dual directional antenna provided with a first microstrip patch array antenna and a second microstrip patch array antenna; and

means a divider for dividing the signal received from the receiving **means unit** to a first portion and a second portion, and passing the first portion to the first microstrip patch array antenna and the second portion to the second microstrip patch array antenna.

9. (original) The apparatus of claim 8, wherein the shadow area is an underpass.